TEJUS

Test Report on Cement

Project	Improvements RCC Road and Drain in surrounding area in Ward No.5 Byatarayanapura Sub Division
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. Santhosh Kumar K R
Sample ID	Cement (ACC Cement 43 Grade)
Date of Sample Tested	01-06-2020
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	95 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	485 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	5mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	29.00%	25 % to 35

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Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Improvements RCC Road and Drain in surrounding area in Ward No.5 Byatarayanapura Sub Division
Consultants	Tejus Consultants, Bangalore
Contractor	Sri. Santhosh Kumar K R

SIEVE ANALYSIS

Total Weight:	3000 gms		
Type of Material	M sand	Proposed Use	concrete
Sample Location	At Site/Plant	Date of Sampling	01-06-2020
		Date of Testing	01-06-2020

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	202	202	6.73	93.27	90 - 100
2.36 mm	384	586	19.53	80.47	75 - 100
1.18 mm	322	908	30.27	69.73	55 - 90
0.600 mm	492	1400	46.67	53.33	35 -59
0.300 mm	768	2168	72.27	27.73	8-30
0.150 mm	644	2812	93.73	6.27	0 - 10
Pan	188	3000			-

Remarks : Satisfactory / Not Satisfactory

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike				
Project	Improvements RCC Road and Drain in surrounding area in Ward No.5 Byatarayanapura Sub Division				
Consultants	TEJUS CONSULTANTS				
Contractor	Sri. Santhosh Kumar K R				
Total Weight:	10000	gms			

SIEVE ANALYSIS

Type of Material	**12.5 mm down size**		**Proposed Use**	CONCRETE	
Sample Location	At Site/Plant		**Date of Sampling**	01-06-2020	
			Date of Testing	01-06-2020	
IS Sieve Size (in mm)	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing**
20.0	0	0	0	100	**100**
12.5	528	528	5.28	94.72	**90-100**
10.0	4592	5120	51.20	48.80	**40-85**
4.75	4486	9606	96.06	3.94	**0-10**
Pan	394	10000			

Remarks : Satisfactory / Not Satisfactory

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Job No.: CECTC/SKR/QC/2019-20 Date: 01.06.2020

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client	:	**Bruhath Bangalore Mahanagara Palike.**
Contractor	:	**Sri, Santhosh Kumar K.R,** Contractor, Bangalore
Name of Work	:	Improvements RCC Road and Drain in surrounding area in Ward No.05 Byatarayanapura Sub Division
Sample Identification	:	8mm, 10mm, Fe 500 TMT Bars
Technical Reference	:	IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)
Date of test:	:	01.06.2020

Sl.No	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
			0.20 % proof stress/ yield stress ($N/mm^{2)}$	Tensile strength ($N/mm^{2)}$	Elongation, percent on gauge length
1	8	0.401	521	570	17
2	10	0.618	533	582	18

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike				
Project	Improvements RCC Road and Drain in surrounding area in Ward No.5 Byatarayanapura Sub Division				
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore				
Contractor	Sri. Santhosh Kumar K R				
Total Weight:	10000	gms			

SIEVE ANALYSIS

Type of Material	20 mm down size		**Proposed Use**	Concrete	
Sample Location	Plant/At site		**Date of Sampling**	01-06-2020	
			Date of Testing	01-06-2020	
IS Sieve Size	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing**
40.00 mm	0	0	0	100	**100**
20.00 mm	272	272	2.72	97.28	**95 - 100**
10.00 mm	4838	5110	51.10	48.90	**25 - 55**
4.75 mm	4228	9338	93.38	6.62	**0 - 10**
Pan	662	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Improvements RCC Road and Drain in surrounding area in Ward No.5 Byatarayanapura Sub Division
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. Santhosh Kumar K R

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	M sand	**Proposed Use**	Concrete
Location/Source	At Laboratory	**Date of Sampling**	01-06-2020
Period of Soaking	24 hours	**Date of Testing**	02-06-2020

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.	650	643	666	
B	Weight of oven - dry sample gm.	642	634	657	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1683	1680	1694	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.653	2.664	2.660	**2.659**
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.246	1.420	1.370	**1.345**

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Improvements RCC Road and Drain in surrounding area in Ward No.5 Byatarayanapura Sub Division
Consultants	Tejus Consultants, Bangalore
Contractor	Sri. Santhosh Kumar K R

SIEVE ANALYSIS

Total Weight:	3000 gms		
Type of Material	M sand	Proposed Use	concrete
Sample Location	At Site/Plant	Date of Sampling	02-06-2020
		Date of Testing	02-06-2020

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	208	208	6.93	93.07	90 - 100
2.36 mm	304	512	17.07	82.93	75 - 100
1.18 mm	410	922	30.73	69.27	55 - 90
0.600 mm	492	1414	47.13	52.87	35 -59
0.300 mm	766	2180	72.67	27.33	8-30
0.150 mm	644	2824	94.13	5.87	0 - 10
Pan	176	3000			-

Remarks : Satisfactory / Not Satisfactory

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike				
Project	Improvements RCC Road and Drain in surrounding area in Ward No.5 Byatarayanapura Sub Division				
Consultants	TEJUS CONSULTANTS				
Contractor	Sri. Santhosh Kumar K R				
Total Weight:	10000	gms			

SIEVE ANALYSIS

Type of Material	**12.5 mm down size**		**Proposed Use**	CONCRETE	
Sample Location	At Site/Plant		**Date of Sampling**	02-06-2020	
			Date of Testing	02-06-2020	
IS Sieve Size (in mm)	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing**
20.0	0	0	0	100	**100**
12.5	558	558	5.58	94.42	**90-100**
10.0	4676	5234	52.34	47.66	**40-85**
4.75	4438	9672	96.72	3.28	**0-10**
Pan	328	10000			

Remarks : Satisfactory / Not Satisfactory

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike				
Project	Improvements RCC Road and Drain in surrounding area in Ward No.5 Byatarayanapura Sub Division				
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore				
Contractor	Sri. Santhosh Kumar K R				
Total Weight:	10000	gms			

SIEVE ANALYSIS

Type of Material	20 mm down size		Proposed Use	Concrete	
Sample Location	Plant/At site		Date of Sampling	02-06-2020	
			Date of Testing	02-06-2020	
IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	252	252	2.52	97.48	95 - 100
10.00 mm	4838	5090	50.90	49.10	25 - 55
4.75 mm	4238	9328	93.28	6.72	0 - 10
Pan	672	10000			

Remarks : Satisfactory / Not Satisfactory

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Test Report on Cement

Project	Improvements RCC Road and Drain in surrounding area in Ward No.5 Byatarayanapura Sub Division
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. Santhosh Kumar K R
Sample ID	Cement (ACC Cement 43 Grade)
Date of Sample Tested	03-06-2020
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	102 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	488 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	4mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	27.00%	25 % to 35

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TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Improvements RCC Road and Drain in surrounding area in Ward No.5 Byatarayanapura Sub Division
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. Santhosh Kumar K R

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	M sand	Proposed Use	concrete
Location/Source	At Laboratory	Date of Sampling	02-06-2020
Period of Soaking	24 hours	Date of Testing	03-06-2020

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.	656	684	668	
B	Weight of oven - dry sample gm.	646	676	657	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1688	1704	1696	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.658	2.651	2.660	**2.656**
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.548	1.183	1.674	**1.469**

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Improvements RCC Road and Drain in surrounding area in Ward No.5 Byatarayanapura Sub Division
Consultants	Tejus Consultants, Bangalore
Contractor	Sri. Santhosh Kumar K R

SIEVE ANALYSIS

Total Weight:	**3000** gms				
Type of Material	**M sand**		**Proposed Use**	concrete	
Sample Location	At Site/Plant		**Date of Sampling**	03-06-2020	
			Date of Testing	03-06-2020	
IS Sieve Size	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing (Zone-II)**
10.00 mm	0	0	0	100.00	100
4.75 mm	205	205	6.83	93.17	90 - 100
2.36 mm	308	513	17.10	82.90	75 - 100
1.18 mm	412	925	30.83	69.17	55 - 90
0.600 mm	488	1413	47.10	52.90	35 -59
0.300 mm	762	2175	72.50	27.50	8-30
0.150 mm	655	2830	94.33	5.67	0 - 10
Pan	170	3000			
					-

Remarks : Satisfactory / Not Satisfactory

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike				
Project	Improvements RCC Road and Drain in surrounding area in Ward No.5 Byatarayanapura Sub Division				
Consultants	TEJUS CONSULTANTS				
Contractor	Sri. Santhosh Kumar K R				
Total Weight:	10000	gms			

SIEVE ANALYSIS

Type of Material	**12.5 mm down size**		**Proposed Use**	CONCRETE	
Sample Location	At Site/Plant		**Date of Sampling**	03-06-2020	
			Date of Testing	03-06-2020	
IS Sieve Size (in mm)	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing**
20.0	0	0	0	100	**100**
12.5	544	544	5.44	94.56	**90-100**
10.0	4692	5236	52.36	47.64	**40-85**
4.75	4428	9664	96.64	3.36	**0-10**
Pan	336	10000			

Remarks : Satisfactory / Not Satisfactory

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NABL ACCREDITED AS PER ISO/IEC 17025:2017

Job No.: CECTC/SKR/QC/2019-20 Date: 03.06.2020

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Bruhath Bangalore Mahanagara Palike.**

Contractor : **Sri, Santhosh Kumar K.R,** Contractor, Bangalore

Name of Work : Improvements RCC Road and Drain in surrounding area in Ward No.05 Byatarayanapura Sub Division

Sample Identification : 8mm, 10mm, Fe 500 TMT Bars

Technical Reference : IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)

Date of test: : 03.06.2020

Sl.No	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
			0.20 % proof stress/ yield stress ($N/mm^{2)}$	Tensile strength ($N/mm^{2)}$	Elongation, percent on gauge length
1	8	0.400	523	569	15
2	10	0.614	529	596	16

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For Civil Experts

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Improvements RCC Road and Drain in surrounding area in Ward No.5 Byatarayanapura Sub Division
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. Santhosh Kumar K R
Total Weight:	10000 gms

SIEVE ANALYSIS

Type of Material	20 mm down size	Proposed Use	Concrete	
Sample Location	Plant/At site	Date of Sampling	03-06-2020	
		Date of Testing	03-06-2020	

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	248	248	2.48	97.52	95 - 100
10.00 mm	4892	5140	51.40	48.60	25 - 55
4.75 mm	4206	9346	93.46	6.54	0 - 10
Pan	654	10000			

Remarks : Satisfactory / Not Satisfactory

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TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Improvements RCC Road and Drain in surrounding area in Ward No.5 Byatarayanapura Sub Division
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. Santhosh Kumar K R

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	M sand	**Proposed Use**	concrete
Location/Source	At Laboratory	**Date of Sampling**	03-06-2020
Period of Soaking	24 hours	**Date of Testing**	04-06-2020

Sl. No.	Test Property		TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.		672	664	658	
B	Weight of oven - dry sample gm.		664	655	649	
C	Weight of Pycnometer Filled with water gm		1275	1275	1275	
D	Weight of Pycnometer + sample + water gm		1698	1692	1689	
E	Bulk specific gravity	$\frac{B}{(C+A-D)}$	2.667	2.652	2.660	**2.659**
G	Absorption (%)	$\frac{(A-B)*100}{B}$	1.205	1.374	1.387	**1.322**

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Improvements RCC Road and Drain in surrounding area in Ward No.5 Byatarayanapura Sub Division
Consultants	Tejus Consultants, Bangalore
Contractor	Sri. Santhosh Kumar K R

SIEVE ANALYSIS

Total Weight:	3000 gms			
Type of Material	M sand		Proposed Use	concrete
Sample Location	At Site/Plant		Date of Sampling	04-06-2020
			Date of Testing	04-06-2020

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	210	210	7.00	93.00	90 - 100
2.36 mm	309	519	17.30	82.70	75 - 100
1.18 mm	428	947	31.57	68.43	55 - 90
0.600 mm	492	1439	47.97	52.03	35 -59
0.300 mm	705	2144	71.47	28.53	8-30
0.150 mm	644	2788	92.93	7.07	0 - 10
Pan	212	3000			-

Remarks : Satisfactory / Not Satisfactory

Note:

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3. Any Query regarding the report must be reported reported within 15days from the date of testing.

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Improvements RCC Road and Drain in surrounding area in Ward No.5 Byatarayanapura Sub Division
Consultants	TEJUS CONSULTANTS
Contractor	Sri. Santhosh Kumar K R
Total Weight:	10000 gms

SIEVE ANALYSIS

Type of Material	12.5 mm down size	Proposed Use	CONCRETE	
Sample Location	At Site/Plant	Date of Sampling	04-06-2020	
		Date of Testing	04-06-2020	

IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	522	522	5.22	94.78	90-100
10.0	4696	5218	52.18	47.82	40-85
4.75	4428	9646	96.46	3.54	0-10
Pan	354	10000			

Remarks : Satisfactory / Not Satisfactory

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike				
Project	Improvements RCC Road and Drain in surrounding area in Ward No.5 Byatarayanapura Sub Division				
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore				
Contractor	Sri. Santhosh Kumar K R				
Total Weight:	10000	gms			

SIEVE ANALYSIS

Type of Material	20 mm down size		**Proposed Use**	Concrete	
Sample Location	Plant/At site		**Date of Sampling**	04-06-2020	
			Date of Testing	04-06-2020	
IS Sieve Size	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing**
40.00 mm	0	0	0	100	100
20.00 mm	272	272	2.72	97.28	95 - 100
10.00 mm	4735	5007	50.07	49.93	25 - 55
4.75 mm	4326	9333	93.33	6.67	0 - 10
Pan	667	10000			

Remarks : Satisfactory / Not Satisfactory

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TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Improvements RCC Road and Drain in surrounding area in Ward No.5 Byatarayanapura Sub Division
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. Santhosh Kumar K R

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	M sand	Proposed Use	concrete
Location/Source	At Laboratory	Date of Sampling	04-06-2020
Period of Soaking	24 hours	Date of Testing	05-06-2020

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.	665	670	664	
B	Weight of oven - dry sample gm.	656	662	655	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1694	1696	1692	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.667	2.659	2.652	**2.659**
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.372	1.208	1.374	**1.318**

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